RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	_/o/677.877A
Source:	IFWO
Date Processed by STIC:	5/23/05

ENTERED



IFWO

RAW SEQUENCE LISTING DATE: 05/23/2005
PATENT APPLICATION: US/10/677,877A TIME: 10:08:07

Input Set : A:\GHtrimer.txt

```
4 <110> APPLICANT: Liang, Peng; GenHunter Corporation
 6 <120> TITLE OF INVENTION: Methods and composition for producing secreted trimeric
         receptor analogs and biologically active fusion proteins
 9 <130> FILE REFERENCE: 03-052-PL
11 <140> CURRENT APPLICATION NUMBER: 10/677,877A
12 <141> CURRENT FILING DATE: 2003-10-02
14 <160> NUMBER OF SEQ ID NOS: 16
16 <210> SEO ID NO: 1
17 <211> LENGTH: 963
18 <212> TYPE: DNA
19 <213> ORGANISM: Homo sapiens
21 <220> FEATURE:
22 <221> NAME/KEY: CDS
23 <222> LOCATION: (12)...(947)
25 <400> SEQUENCE: 1
26 aagettacgt aagatetaac ggteteeetg geeceattgg geeceetggt eetegeggte
28 gcactggtga tgctggtcct gttggtcccc ccggccctcc tggacctcct ggtccccctg
                                                                       120
30 gtcctcccag cgctggtttc gacttcagct tcctgcccca gccacctcaa gagaaggctc
                                                                       180
32 acgatggtgg ccgctactac cgggctgatg atgccaatgt ggttcgtgac cgtgacctcg
34 aggtggacac caccetcaag agcetgagee ageagatega gaacateegg ageecagagg
36 qaaqccqcaa qaaccccqcc cqcacctqcc qtqacctcaa gatqtqccac tctqactqqa
                                                                       360
38 agagtggaga gtactggatt gaccccaacc aaggctgcaa cctggatgcc atcaaagtct
                                                                       420
40 tetgeaacat ggagaetggt gagaeetgeg tgtaeeeeac teageeeagt gtggeeeaga
                                                                       480
42 agaactggta catcagcaag aaccccaagg acaagaggca tgtctggttc ggcgagagca
44 tgaccgatgg attccagttc gagtatggcg gccagggctc cgaccctgcc gatgtggcca
46 tecagetgae ettectgege etgatgteea eegaggeete eeagaacate acetaceaet
                                                                       660
48 gcaagaacag cgtggcctac atggaccagc agactggcaa cctcaagaag gccctgctcc
50 tcaagggctc caacgagatc gagatccgcg ccgagggcaa cagccgcttc acctacagcg
52 tcactgtcga tggctgcacg agtcacaccg gagcctgggg caagacagtg attgaataca
                                                                       840
54 aaaccaccaa gtcctcccgc ctgcccatca tcgatgtggc ccccttggac gttggtgccc
                                                                       900
56 cagaccagga atteggette gaegttggee etgtetgett cetgtaaact ecetecatet
                                                                       960
58 aga
                                                                       963
61 <210> SEQ ID NO: 2
62 <211> LENGTH: 311
63 <212> TYPE: PRT
64 <213> ORGANISM: Homo sapiens
66 <400> SEQUENCE: 2
67 Arg Ser Asn Gly Leu Pro Gly Pro Ile Gly Pro Pro Gly Pro Arg Gly
                                       10
70 Arg Thr Gly Asp Ala Gly Pro Val Gly Pro Pro Gly Pro Pro Gly Pro
                                   25
73 Pro Gly Pro Pro Gly Pro Pro Ser Ala Gly Phe Asp Phe Ser Phe Leu
74
                               40
```

RAW SEQUENCE LISTING DATE: 05/23/2005
PATENT APPLICATION: US/10/677,877A TIME: 10:08:07

Input Set : A:\GHtrimer.txt

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76 Pro Gln Pro Pro Gln Glu Lys Ala His Asp Gly Gly Arg Tyr Tyr Arg
                           55
79 Ala Asp Asp Ala Asn Val Val Arg Asp Arg Asp Leu Glu Val Asp Thr
                       70
82 Thr Leu Lys Ser Leu Ser Gln Gln Ile Glu Asn Ile Arg Ser Pro Glu
                   85
                                       90
85 Gly Ser Arg Lys Asn Pro Ala Arg Thr Cys Arg Asp Leu Lys Met Cys
                                   105
               100
88 His Ser Asp Trp Lys Ser Gly Glu Tyr Trp Ile Asp Pro Asn Gln Gly
           115
91 Cys Asn Leu Asp Ala Ile Lys Val Phe Cys Asn Met Glu Thr Gly Glu
                           135
       130
94 Thr Cys Val Tyr Pro Thr Gln Pro Ser Val Ala Gln Lys Asn Trp Tyr
                       150
97 Ile Ser Lys Asn Pro Lys Asp Lys Arg His Val Trp Phe Gly Glu Ser
                                       170
                   165
100 Met Thr Asp Gly Phe Gln Phe Glu Tyr Gly Gly Gln Gly Ser Asp Pro
                180
                                    185
103 Ala Asp Val Ala Ile Gln Leu Thr Phe Leu Arg Leu Met Ser Thr Glu
            195
                                200
                                                     205
106 Ala Ser Gln Asn Ile Thr Tyr His Cys Lys Asn Ser Val Ala Tyr Met
                            215
109 Asp Gln Gln Thr Gly Asn Leu Lys Lys Ala Leu Leu Lys Gly Ser
                        230
                                            235
112 Asn Glu Ile Glu Ile Arg Ala Glu Gly Asn Ser Arg Phe Thr Tyr Ser
113
                    245
                                        250
115 Val Thr Val Asp Gly Cys Thr Ser His Thr Gly Ala Trp Gly Lys Thr
                260
                                    265
                                                         270
118 Val Ile Glu Tyr Lys Thr Thr Lys Ser Ser Arg Leu Pro Ile Ile Asp
                                280
            275
121 Val Ala Pro Leu Asp Val Gly Ala Pro Asp Gln Glu Phe Gly Phe Asp
        290
                            295
                                                 300
124 Val Gly Pro Val Cys Phe Leu
125 305
129 <210> SEQ ID NO: 3
130 <211> LENGTH: 771
131 <212> TYPE: DNA
132 <213> ORGANISM: Homo sapiens
134 <220> FEATURE:
135 <221> NAME/KEY: CDS
136 <222> LOCATION: (12)...(755)
138 <400> SEQUENCE: 3
139 aagettacgt aagatetgat gecaatgtgg ttegtgaceg tgacetegag gtggacacea
141 ccctcaagag cctgagccag cagatcgaga acatccggag cccagaggga agccgcaaga
                                                                        120
143 accccgcccg cacctgccgt gacctcaaga tgtgccactc tgactggaag agtggagagt
145 actggattga ccccaaccaa ggctgcaacc tggatgccat caaagtcttc tgcaacatgg
                                                                        240
147 agactggtga gacctgcgtg taccccactc agcccagtgt ggcccagaag aactggtaca
                                                                        300
149 tcagcaagaa ccccaaggac aagaggcatg tctggttcgg cgagagcatg accgatggat
                                                                        360
151 tccagttcga gtatggcggc cagggctccg accetgccga tgtggccatc cagctgacct
                                                                        420
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RAW SEQUENCE LISTINGPATENT APPLICATION: **US/10/677,877A**DATE: 05/23/2005 TIME: 10:08:07

Input Set : A:\GHtrimer.txt

```
153 teetgegeet gatgteeace gaggeeteee agaacateae etaceaetge aagaacageg
                                                                        480
155 tggcctacat qqaccaqcaq actggcaacc tcaaqaaggc cctgctcctc aagggctcca
157 acgagatega gateegegee gagggeaaca geegetteae etacagegte actgtegatg
                                                                       600
159 gctgcacgag tcacaccgga gcctggggca agacagtgat tgaatacaaa accaccaagt
                                                                        660
161 cctcccgcct gcccatcatc gatgtggccc ccttggacgt tggtgcccca gaccaggaat
                                                                       720
163 teggettega egttggeeet gtetgettee tgtaaactee etceatetag a
                                                                        771
166 <210> SEQ ID NO: 4
167 <211> LENGTH: 247
168 <212> TYPE: PRT
169 <213> ORGANISM: Homo sapiens
171 <400> SEQUENCE: 4
172 Arg Ser Asp Ala Asn Val Val Arg Asp Arg Asp Leu Glu Val Asp Thr
                                         10
175 Thr Leu Lys Ser Leu Ser Gln Gln Ile Glu Asn Ile Arg Ser Pro Glu
178 Gly Ser Arg Lys Asn Pro Ala Arg Thr Cys Arg Asp Leu Lys Met Cys
            35
                                40
181 His Ser Asp Trp Lys Ser Gly Glu Tyr Trp Ile Asp Pro Asn Gln Gly
                            55
184 Cys Asn Leu Asp Ala Ile Lys Val Phe Cys Asn Met Glu Thr Gly Glu
                        70
                                            75
187 Thr Cys Val Tyr Pro Thr Gln Pro Ser Val Ala Gln Lys Asn Trp Tyr
190 Ile Ser Lys Asn Pro Lys Asp Lys Arg His Val Trp Phe Gly Glu Ser
                                    105
193 Met Thr Asp Gly Phe Gln Phe Glu Tyr Gly Gln Gly Ser Asp Pro
                                                     125
            115
                                120
196 Ala Asp Val Ala Ile Gln Leu Thr Phe Leu Arg Leu Met Ser Thr Glu
                            135
199 Ala Ser Gln Asn Ile Thr Tyr His Cys Lys Asn Ser Val Ala Tyr Met
                        150
                                            155
202 Asp Gln Gln Thr Gly Asn Leu Lys Lys Ala Leu Leu Leu Lys Gly Ser
                    165
                                        170
205 Asn Glu Ile Glu Ile Arg Ala Glu Gly Asn Ser Arg Phe Thr Tyr Ser
                180
                                    185
208 Val Thr Val Asp Gly Cys Thr Ser His Thr Gly Ala Trp Gly Lys Thr
                                200
211 Val Ile Glu Tyr Lys Thr Thr Lys Ser Ser Arg Leu Pro Ile Ile Asp
                                               220
                            215
212
214 Val Ala Pro Leu Asp Val Gly Ala Pro Asp Gln Glu Phe Gly Phe Asp
                                            235
215 225
217 Val Gly Pro Val Cys Phe Leu
218
                    245
220 <210> SEQ ID NO: 5
221 <211> LENGTH: 2487
222 <212> TYPE: DNA
223 <213> ORGANISM: Homo sapiens
225 <220> FEATURE:
226 <221> NAME/KEY: CDS
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RAW SEQUENCE LISTING DATE: 05/23/2005 PATENT APPLICATION: US/10/677,877A TIME: 10:08:07

Input Set : A:\GHtrimer.txt

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227 <222> LOCATION: (12)...(2471)
229 <400> SEQUENCE: 5
230 aagetteetq catqctgetq etgetqetqc tqctqggeet gaggetacag etetecetgg
                                                                         60
232 gcatcatccc agttqaggag qagaacccqq acttctggaa ccgcgaggca gccgaggccc
                                                                       120
234 tgggtgccgc caagaagctg cagcctgcac agacagccgc caagaacctc atcatcttcc
                                                                        180
236 tgggcgatgg gatggggtg tctacggtga cagctgccag gatcctaaaa gggcagaaga
                                                                        240
238 aggacaaact ggggcctgag atacccctgg ccatggaccg cttcccatat gtggctctgt
                                                                        300
240 ccaaqacata caatgtagac aaacatgtgc cagacagtgg agccacagcc acggcctacc
                                                                        360
242 tgtgcggggt caagggcaac ttccagacca ttggcttgag tgcagccgcc cgctttaacc
                                                                        420
244 agtgcaacac gacacgcggc aacgaggtca tctccgtgat gaatcgggcc aagaaagcag
                                                                        480
                                                                        540
246 ggaagtcagt gggagtggta accaccacac gagtgcagca cgcctcgcca gccggcacct
248 acgcccacac ggtgaaccgc aactggtact cggacgccga cgtgcctgcc tcggcccgcc
                                                                        600
250 aggaggggtg ccaggacatc gctacgcagc tcatctccaa catggacatt gacgtgatcc
                                                                        660
                                                                       720
252 taggtggagg ccgaaagtac atgtttccca tgggaacccc agaccctgag tacccagatg
                                                                       780
254 actacageca aggtgggace aggetggacg ggaagaatet ggtgcaggaa tggetggega
                                                                        840
256 agcgccaggg tgcccggtat gtgtggaacc gcactgagct catgcaggct tccctggacc
258 cqtctgtgac ccatctcatg ggtctctttg agcctggaga catgaaatac gagatccacc
                                                                        900
260 gagactecae actggaceee teeetgatgg agatgacaga ggetgeeetg egeetgetga
                                                                        960
262 gcaggaaccc ccgcggcttc ttcctcttcg tggagggtgg tcgcatcgac catggtcatc 1020
264 atqaaaqcag ggcttaccgg gcactgactg agacgatcat gttcgacgac gccattgaga 1080
266 gggcgggcca gctcaccagc gaggaggaca cgctgagcct cgtcactgcc gaccactccc 1140
268 acgtettete etteggagge taccecetge gagggagete catetteggg etggeeeetg 1200
270 gcaaggcccg ggacaggaag gcctacacgg tcctcctata cggaaacggt ccaggctatg 1260
272 tgctcaagga cggcgcccgg ccggatgtta ccgagagcga gagcgggagc cccgagtatc 1320
274 ggcagcagtc agcagtgccc ctggacgaag agacccacgc aggcgaggac gtggcggtgt 1380
276 tegegegegg ceegeaggeg cacetggtte aeggegtgea ggageagace tteatagege 1440
278 acgtcatggc cttcgccgcc tgcctggagc cctacaccgc ctgcgacctg gcgccccccg 1500
280 ccggcaccac cgacgccgcg cacccgggtt ccggaagatc taacggtctc cctggcccca 1560
282 ttgggccccc tggtcctcgc ggtcgcactg gtgatgctgg tcctgttggt ccccccggcc 1620
284 ctectggace teetggteee eetggteete eeagegetgg tttegaette agetteetge 1680
286 cccagccacc tcaagagaag gctcacgatg gtggccgcta ctaccgggct gatgatgcca 1740
288 atgtggttcg tgaccgtgac ctcgaggtgg acaccaccct caagagcctg agccagcaga 1800
290 tcgagaacat ccggagccca gagggaagcc gcaagaaccc cgcccgcacc tgccgtgacc 1860
292 tcaagatgtg ccactctgac tggaagagtg gagagtactg gattgacccc aaccaaggct 1920
294 gcaacctgga tgccatcaaa gtcttctgca acatggagac tggtgagacc tgcgtgtacc 1980
296 ccactcagec cagtgtggec cagaagaact ggtacatcag caagaaceec aaggacaaga 2040
298 ggcatgtctg gttcggcgag agcatgaccg atggattcca gttcgagtat ggcggccagg 2100
300 getecgaece tgeegatgtg gecatecage tgaeetteet gegeetgatg tecaeegagg 2160
302 cctcccagaa catcacctac cactgcaaga acagcgtggc ctacatggac cagcagactg 2220
304 gcaacctcaa gaaggccctg ctcctcaagg gctccaacga gatcgagatc cgcgccgagg 2280
306 gcaacageeg etteacetae agegteactg tegatggetg caegagteae aceggageet 2340
308 ggggcaagac agtgattgaa tacaaaacca ccaagtcctc ccgcctgccc atcatcgatg 2400
310 tggcccctt ggacgttggt gccccagacc aggaattcgg cttcgacgtt ggccctgtct 2460
312 gcttcctgta aactccctcc atctaga
315 <210> SEO ID NO: 6
316 <211> LENGTH: 819
317 <212> TYPE: PRT
318 <213> ORGANISM: Homo sapiens
320 <400> SEQUENCE: 6
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RAW SEQUENCE LISTING DATE: 05/23/2005
PATENT APPLICATION: US/10/677,877A TIME: 10:08:07

Input Set : A:\GHtrimer.txt

321 322	Met	Leu	Leu	Leu	Leu 5	Leu	Leu	Leu	Gly	Leu 10	Arg	Leu	Gln	Leu	Ser 15	Leu
	Gly	Ile	Ile	Pro 20	Val	Glu	Glu	Glu	Asn 25	Pro	Asp	Phe	Trp	Asn 30	Arg	Glu
	Ala	Ala	Glu 35	Ala	Leu	Gly	Ala	Ala 40		Lys	Leu	Gln	Pro 45		Gln	Thr
	Ala	Ala 50		Asn	Leu	Ile	Ile 55	-	Leu	Gly	Asp	Gly 60		Gly	Val	Ser
		Val	Thr	Ala	Ala	Arg 70	Ile	Leu	Lys	Gly	Gln 75	Lys	Lys	Asp	Lys	Leu 80
336 337	Gly	Pro	Glu	Ile	Pro 85	Leu	Ala	Met	Asp	Arg 90	Phe	Pro	Tyr	Val	Ala 95	Leu
339 340	Ser	Lys	Thr	Tyr 100	Asn	Val	Asp	Lys	His 105	Val	Pro	Asp	Ser	Gly 110	Ala	Thr
343			115	Tyr				120					125			
345 346	Leu	Ser 130	Ala	Ala	Ala	Arg	Phe 135	Asn	Gln	Cys	Asn	Thr 140	Thr	Arg	Gly	Asn
349	145			Ser		150					155					160
352	_			Thr	165		_			170					175	
355				Thr 180					185		,			190		
358			195	Arg			_	200		_		,	205			
361		210		Asp		_	215			_	_	220	_	_	-	
364	225			Gly		230	_			_	235					240
367		_		Arg	245		٠			250					255	
370	_	_		Gly 260					265					270		
373			275	Asp				280				_	285			
376	_	290		Lys Met	_		295		_	_		300				
379	305					310					315					320
382	_	_			325				_	330					335	His
385				Arg 340					345					350		
388			355					360					365			Leu
391		370		Thr		_	375					380				
393	Pro	Leu	Arg	Gly	Ser	Ser	Ile	Phe	Gly	Leu	Ala	Pro	GLy	Lys	Ala	Arg

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 05/23/2005 PATENT APPLICATION: US/10/677,877A TIME: 10:08:08

Input Set : A:\GHtrimer.txt

Output Set: N:\CRF4\05232005\J677877A.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:7; Line(s) 564
Seq#:11; Line(s) 961
Seq#:14; Line(s) 1274
Seq#:15; Line(s) 1364

VERIFICATION SUMMARY

DATE: 05/23/2005 TIME: 10:08:08

PATENT APPLICATION: US/10/677,877A

Input Set : A:\GHtrimer.txt
Output Set: N:\CRF4\05232005\J677877A.raw